

Fire Danger PocketCard

Northern Utah Interagency Fire Center

<http://fam.nwcg.gov/fam-web/pocketcards/>

Fire Danger Interpretation

Dispatch Levels		Burning Index - Model G	
Wasatch Mtns	Uinta Mtns	Wasatch Mtns	Uinta Mtns
High: Potential for high to extreme intensity. Expect high rates of spread, flame length, and control difficulty.	74 + (78 th percentile)	59 + (78 th percentile)	
Moderate: Anticipate moderate fire intensity. The BI can change rapidly with variable weather conditions.	60 - 73	44 - 58	
Low: Expect low fire intensity. Containment should be attainable. However, always be cautious.	0 - 59	0 - 43	

Local (Critical) Thresholds: any of these factors will significantly increase the risk for extreme fire behavior. The more factors present, the greater the risk.

Weather Observations (at the Critical Percentile)

	Wasatch FDRA (78 th percentile)	Uinta FDRA (78 th percentile)
20-ft Wind (mph)	> 9	> 10
Min. Relative Humidity (%)	< 12	< 12
Max. Temperature (°F)	> 88	> 89

- ♦ **Wind Gusts** exceeding 30 mph will increase the probability of erratic fire behavior and large fire growth.
- ♦ **Microbursts** are powerful downdrafts from thunderstorms which can seriously affect the spread rate, intensity, and direction from several miles away.
- ♦ **Lake Effect Winds** will enhance up-slope winds (in the afternoon) & down-slope winds (after sunset) resulting in unexpected fire intensity adjacent to the Great Salt Lake and Utah Lake.



Recent Fire Experience

Wasatch Mountains FDRA

Date	Fire Name	Size (ac)	BI	RH (%)	Temp (°F)	Wind (mph)
07/22/11	Cottonwood 2	25	79	11	88	10
07/26/10	Green Canyon	25	81	11	93	9
08/16/09	Hobble Creek	157	77	19	70	10
08/25/08	Corner Canyon	808	87	11	94	9

Uinta Mountains FDRA

Date	Fire Name	Size (ac)	BI	RH (%)	Temp (°F)	Wind (mph)
09/21/10	C1	2.0	84	11	71	8
09/01/09	Gilbert Creek	0.5	65	16	76	5
09/14/09	Christmas	0.3	58	34	64	5
06/29/02	East Fork	14,208	85	10	77	8

Burning Index (BI) Facts:

- BI is an index representing the potential difficulty containing a fire due to flame length (intensity) at the head of the fire
- BI is very sensitive to small fluctuations in wind speed
- BI with Fuel Model G has a very good statistical correlation to large fire occurrence in Northern Utah.

Updated: May 2012

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Wasatch Mountains FDRA

NWS Forecast Zone 479

RAWS (in SIG)	Number	Data Years	Model
Beus Canyon *	420403	2001 - 2011	TG
Otter Creek *	420912	2001 - 2011	TG
Pleasant Grove *	421101	2001 - 2011	TG
Rays Valley *	421103	2001 - 2011	TG

* These stations comply with NWCG Weather Station Standards (PMS 426-3)

NWS Forecast Zone 479

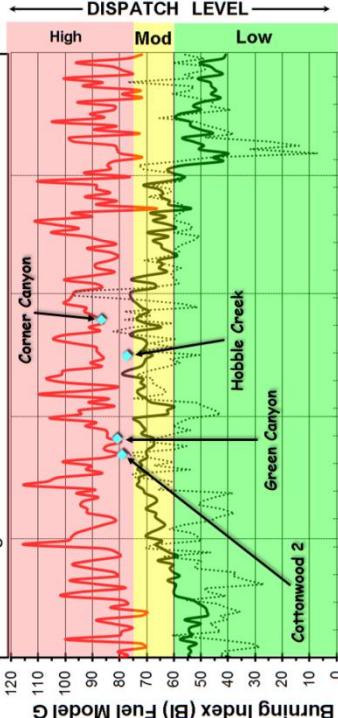
RAWS (in SIG)	Number	Data Years	Elevation	Model
Beus Canyon *	420403	5/10/01 - 5/10/11	7160'	2001 - 2011
Otter Creek *	420912	5/10/01 - 5/10/11	7160'	2001 - 2011
Pleasant Grove *	421101	5/20/01 - 5/20/11	7300'	2001 - 2011
Rays Valley *	421103	7/30/01 - 7/30/11	7300'	2001 - 2011

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NWS Forecast Zone 479

Burnling Index (BI) Fuel Model G

— Average — Maximum 2011 ◆ Memorable Fires



NWS Forecast Zone 480

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NWS Forecast Zone 480

Burnling Index (BI) Fuel Model G

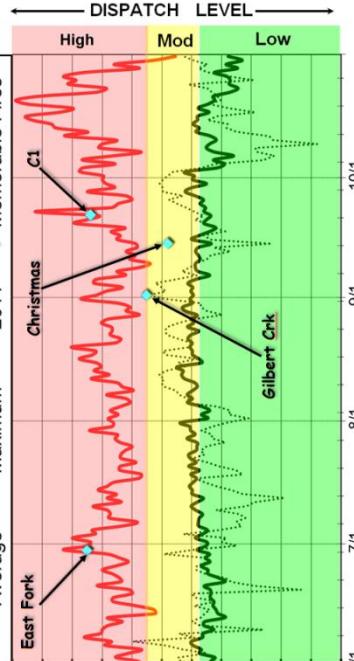
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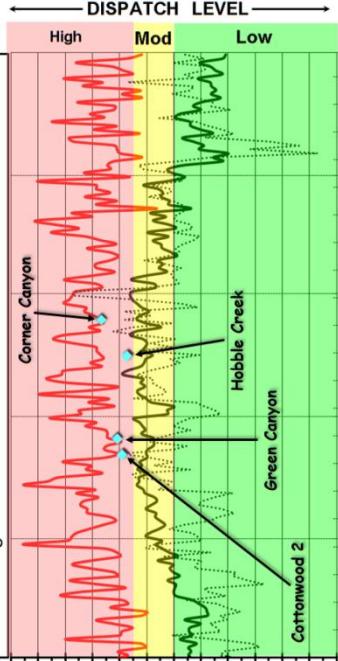
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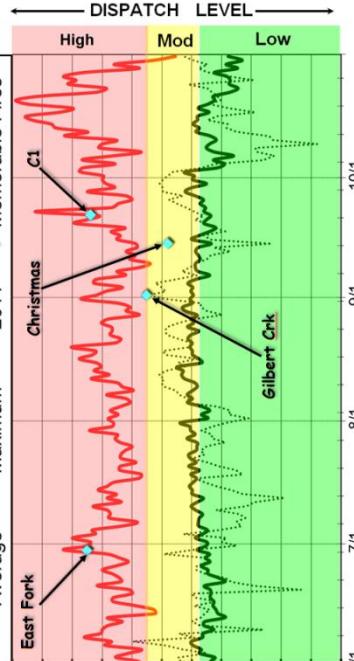
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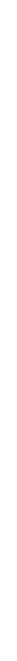
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